

AMENDMENTS TO THE CLAIMS

Please amend Claims 20 and 48 as follows:

1. (Previously Presented) A process for a digital video recorder, comprising the steps of:

wherein each tuner of a plurality of input signal tuners in said digital video recorder accepts analog and/or digital television broadcast signals;

wherein each of said tuners is individually tuned to a specific broadcast signal;

converting analog television broadcast signals into a digital signal;

separating a digital signal or digital television broadcast signal into its video and audio components;

storing said video and audio components on a storage device;

wherein each output device of a plurality of output devices in said digital video recorder extracts a specific video and audio component from said storage device;

decoding each specific video and audio component into a display output signal;

sending display output signals to at least one display device; and

wherein said decoding step allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

2. (Previously Presented) The process of Claim 1, wherein a user controls the playback rate and direction of a display output signal through a remote control.

3. (Previously Presented) The process of Claim 1, further comprising the step of:

providing a multimedia recording device, wherein said decoding step sends any of a specific video and audio component or a display output signal to said multimedia recording device for recording.

4. (Previously Presented) The process of Claim 1, further comprising the step of:
inserting on-screen displays into a display output signal.

5. (Original) The process of Claim 1, further comprising the step of:
providing editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments to be lined up and combined and stored on said storage device.

6. (Original) The process of Claim 1, further comprising the step of:
providing means for synchronizing video and audio components for proper playback.

7. (Original) The process of Claim 1, wherein an input signal tuner receives any of: software updates or data.

8. (Previously Presented) A process for a digital video recorder, comprising the steps of:

receiving a plurality of television broadcast signals;

storing each television broadcast signal in a digital form on a storage device;

wherein each output device of a plurality of output devices in said digital video recorder extracts a specific digital broadcast signal from said storage device;

wherein at least two output devices simultaneously extract different digital broadcast signals;

converting each specific digital broadcast signal into a display output signal;

sending display output signals to at least one display device; and
wherein said converting step allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

9. (Previously Presented) The process of Claim 8, wherein a user controls the playback rate and direction of a display output signal through a remote control.

10. (Previously Presented) The process of Claim 8, further comprising the step of:
providing a multimedia recording device, wherein said converting step sends any of a specific digital broadcast signal or a display output signal to said multimedia recording device for recording.

11. (Previously Presented) The process of Claim 8, further comprising the step of:
inserting on-screen displays into a display output signal.

12. (Original) The process of Claim 8, further comprising the step of:
providing editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments of digital broadcast signals to be lined up and combined and stored on said storage device.

13. (Original) The process of Claim 8, wherein a television broadcast signal can contain any of: software updates or data.

14. (Previously Presented) A process for a digital video recorder, comprising the steps of:

receiving a plurality of input streams;

storing said plurality of input streams in digital form on a storage device;

wherein each output device of a plurality of output devices in said digital video recorder extracts a digital stream from said storage device;

wherein at least two output devices simultaneously extract different digital streams;

decoding each digital stream into a display output signal;

sending display output signals to at least one display device; and

wherein said decoding step allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

15. (Previously Presented) The process of Claim 14, wherein a user controls the playback rate and direction of a display output signal through a remote control.

16. (Previously Presented) The process of Claim 14, further comprising the step of:

providing a multimedia recording device, wherein said decoding step sends any of a digital stream or a display output signal to said multimedia recording device for recording.

17. (Previously Presented) The process of Claim 14, further comprising the step of:

inserting on-screen displays into a display output signal.

18. (Original) The process of Claim 14, further comprising the step of:

providing editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments of digital streams to be lined up and combined and stored on said storage device.

19. (Original) The process of Claim 14, wherein an input stream can contain any of: software updates or data.

20. (Currently Amended) A process for a digital video recorder, comprising the steps of:

storing a plurality of multimedia programs in digital form on a storage device;
displaying a list of previously [[-]]recorded multimedia programs stored on said storage device to a user;

wherein the user selects previously recorded multimedia programs from said list;
simultaneously playing back at least one of said selected previously recorded multimedia programs and a multimedia program whose storage is in progress to at least one display device; and

wherein said playing back step allows playback rate and direction of each multimedia program to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

21. (Previously Presented) The process of Claim 20, wherein said playing back step converts said at least one of said selected multimedia programs and said multimedia program whose storage is in progress into display output signals;

22. (Previously Presented) The process of Claim 21, further comprising the step of:
inserting on-screen displays into a display output signal.

23. (Original) The process of Claim 20, wherein a user controls the playback rate and direction of a multimedia program through a remote control.

24. (Original) The process of Claim 20, further comprising the step of:
providing a multimedia recording device, wherein said playing back step sends a multimedia program to said multimedia recording device, allowing a user to record said multimedia program.

25. (Original) The process of Claim 20, further comprising the step of:

providing editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments of multimedia programs to be lined up and combined and stored on said storage device.

26. (Previously Presented) The process of Claim 20, further comprising the steps of:

providing a plurality of input signal tuners;

wherein said tuners accept analog and/or digital multimedia program signals;

wherein each of said tuners is individually tuned to a specific multimedia program;

converting analog multimedia programs into a digital representation; and

wherein said storing step separates a digitized analog multimedia program or digital multimedia program into its video and audio components before storing on said storage device.

27. (Original) The process of Claim 26, further comprising the step of:

providing means for synchronizing video and audio components for proper playback.

28. (Original) The process of Claim 26, wherein an input signal tuner receives any of: software updates or data.

29. (Previously Presented) An apparatus for a digital video recorder, comprising:

a plurality of input signal tuners;

wherein said tuners accept analog and/or digital television broadcast signals;

wherein each of said tuners is individually tuned to a specific broadcast signal;

a module for converting analog television broadcast signals into a digital signal;

a module for separating a digital signal or digital television broadcast signal into its video and audio components;

a module for storing said video and audio components on a storage device;

a plurality of output devices in said digital video recorder;

wherein each output device extracts a specific video and audio component from said storage device;

a module for decoding each specific video and audio component into a display output signal; and

a module for sending display output signals to at least one display device;

wherein said decoding module allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

30. (Previously Presented) The apparatus of Claim 29, wherein a user controls the playback rate and direction of a display output signal through a remote control.

31. (Previously Presented) The apparatus of Claim 29, further comprising:

a multimedia recording device, wherein said decoding module sends any of a specific video and audio component or a display output signal to said multimedia recording device for recording.

32. (Previously Presented) The apparatus of Claim 29, further comprising:

a module for inserting on-screen displays into a display output signal.

33. (Original) The apparatus of Claim 29, further comprising:

editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments to be lined up and combined and stored on said storage device.

34. (Original) The apparatus of Claim 29, further comprising:
means for synchronizing video and audio components for proper playback.
35. (Original) The apparatus of Claim 29, wherein an input signal tuner receives any of: software updates or data.
36. (Previously Presented) An apparatus for a digital video recorder, comprising:
a module for receiving a plurality of television broadcast signals;
a module for storing each television broadcast signal in a digital form on a storage device;
a plurality of output devices in said digital video recorder;
wherein each output device extracts a specific digital broadcast signal from said storage device;
wherein at least two output devices simultaneously extract different digital broadcast signals;
a module for converting each specific digital broadcast signal into a display output signal;
a module for sending display output signals to at least one display device; and
wherein said converting module allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.
37. (Previously Presented) The apparatus of Claim 36, wherein a user controls the playback rate and direction of a display output signal through a remote control.
38. (Previously Presented) The apparatus of Claim 36, further comprising:

a multimedia recording device, wherein said converting module sends any of a specific digital broadcast signal or a display output signal to said multimedia recording device for recording.

39. (Previously Presented) The apparatus of Claim 36, further comprising:

a module for inserting on-screen displays into a display output signal.

40. (Original) The apparatus of Claim 36, further comprising:

editing means for creating custom sequences of video and/or audio output; and

wherein said editing means allows any number of video and/or audio segments of digital broadcast signals to be lined up and combined and stored on said storage device.

41. (Original) The apparatus of Claim 36, wherein a television broadcast signal can contain any of: software updates or data.

42. (Previously Presented) An apparatus for a digital video recorder, comprising:

a module for receiving a plurality of input streams;

a module for storing said plurality of input streams in digital form on a storage device;

a plurality of output devices in said digital video recorder;

wherein each output device extracts a digital stream from said storage device;

wherein at least two output devices simultaneously extract different digital streams;

a module for decoding each digital stream into a display output signal; and

a module for sending display output signals to at least one display device;

wherein said decoding module allows playback rate and direction of each display output signal to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

43. (Previously Presented) The apparatus of Claim 42, wherein a user controls the playback rate and direction of a display output signal through a remote control.
44. (Previously Presented) The apparatus of Claim 42, further comprising:
a multimedia recording device, wherein said decoding module sends any of a digital stream or a display output signal to said multimedia recording device for recording.
45. (Previously Presented) The apparatus of Claim 42, further comprising:
a module for inserting on-screen displays into a display output signal.
46. (Original) The apparatus of Claim 42, further comprising:
editing means for creating custom sequences of video and/or audio output; and
wherein said editing means allows any number of video and/or audio segments of digital streams to be lined up and combined and stored on said storage device.
47. (Original) The apparatus of Claim 42, wherein an input stream can contain any of: software updates or data.
48. (Currently Amended) An apparatus for a digital video recorder, comprising:
a module for storing a plurality of multimedia programs in digital form on a storage device;
displaying a list of previously ~~[[-]]~~ recorded multimedia programs stored on said storage device to a user;
wherein the user selects previously recorded multimedia programs from said list;
a module for simultaneously playing back at least one of said selected previously recorded multimedia programs and a multimedia program whose storage is in progress to at least one display device; and

wherein said playing back module allows playback rate and direction of each multimedia program to be controlled individually and simultaneously to perform variable rate fast forward and rewind, frame step, pause, and play functions.

49. (Previously Presented) The apparatus of Claim 48, wherein said playing back step converts said at least two of said multimedia programs into display output signals;

50. (Previously Presented) The apparatus of Claim 49, further comprising:
a module for inserting on-screen displays into a display output signal.

51. (Original) The apparatus of Claim 48, wherein a user controls the playback rate and direction of a multimedia program through a remote control.

52. (Original) The apparatus of Claim 48, further comprising:
a multimedia recording device, wherein said playing back module sends a multimedia program to said multimedia recording device, allowing a user to record said multimedia program.

53. (Original) The apparatus of Claim 48, further comprising:
editing means for creating custom sequences of video and/or audio output; and
wherein said editing means allows any number of video and/or audio segments of multimedia programs to be lined up and combined and stored on said storage device.

54. (Previously Presented) The apparatus of Claim 48, further comprising:
a plurality of input signal tuners;
wherein said tuners accept analog and/or digital multimedia program signals;
wherein each of said tuners is individually tuned to a specific multimedia program;
a module for converting analog multimedia programs into a digital representation;
and

wherein said storing module separates a digitized analog multimedia program or digital multimedia program into its video and audio components before storing on said storage device.

55. (Original) The apparatus of Claim 54, further comprising the step of:

means for synchronizing video and audio components for proper playback.

56. (Original) The apparatus of Claim 54, wherein an input signal tuner receives any of: software updates or data.

57. (Previously Presented) The process of Claim 20, wherein said playing back step plays back said at least two of said multimedia programs in a picture in a picture format to a display device.

58. (Previously Presented) The process of Claim 48, wherein said playing back module plays back said at least two of said multimedia programs in a picture in a picture format to a display device.